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STATE BOARD OF HEALTH

INDIANAPOLIS

OFFICE MEMORANDUM

DATE: June 20, 1985

THRU: Skip Powers *Bfor*

TO: Wayne County Spill File

FROM: Chuck Phipps

SUBJECT: Hydraulic Oil Spill
Design and Manufacturing Company
Richmond, Indiana
Incident No. 850615

EPA Region 5 Records Ctr.



348908

On June 6, 1985, at 4 a.m., OER staff was notified by Mr. Paul Fuller, Chemist with Design and Manufacturing Company, 1767 Sheridan, Richmond, Indiana (317/962-4511), that 20 to 50 gallons of hydraulic oil had been dumped into a storm sewer by an employee.

The storm sewer drain led to Burns Ditch which in turn, drains to Whitewater River. Fortunately, personnel from Design and Manufacturing Company immediately contained the hydraulic oil utilizing absorbent booms and pads in Burns Ditch. The company is currently investigating whether or not the employee acted under instructions from a superior or on his own accord. Wayne County Sanitarian Tom Atkinson will supervise cleanup activities.

No further action is anticipated by this office.

cc: L. Robert Carter



absocold corp.

P.O. BOX 1545, 1751 SHERIDAN STREET, RICHMOND, INDIANA 47374
PHONE (317) 935-7501

June 7, 1985

RECEIVED

Bruce Frost or Mark Mauk
Indiana State Board of Health
Office of Emergency Response
1330 W. Michigan Street
Indianapolis, IN 46206

JUN 11 1985

Office of Emergency Response
Indiana State Board of Health

RE: OIL SPILL INTO THE STORM SEWERS

The oil spill occurred at 12:20 P.M. Wednesday, June 5, 1985. I was notified at 1:00 P.M. at the Connersville, Indiana plant. Instructions were given as to accumulation of equipment needed to contain the oil.

At 1:30 P.M., we checked about 3,000 yards down stream for oil. It had not arrived at this point. We checked at about 1500 yards down stream and saw the oil. This stream feed a fishing lake in the Richmond Park System.

We requested the Park Ranger to shut off the valve going to the lake. We were informed that this valve was inoperable. The Park Ranger said he would notify the Wayne County Health Department for us. This would have been approximately 1:50 P.M. We then began to dam the Burns Ditch with oil absorption boons. We also added oil absorption pads in front of the boons. We set up a total of nine (9) dams on the Burns Ditch area and one (1) dam across the west tributary of the east fork of the Whitewater River. We also set one (1) dam with oil absorbant pads on the incoming water to the Lake. Mr. Thomas Atkinson from the Wayne County Health Department arrived on the scene as we were putting the dams across the Burns Ditch area. We began wringing the oil out of the pads and accumulated it in an open top drum. The oil was being contained at this point, so I headed back to our Lab and then notified the State Board of Health. This was approximately 3:15 P.M.

The total amount of stream that we covered was about 1500 yards. This stream is about 3 to 4 foot wide and the depth will vary from an average of 2 to 4 inches.

The oil that contaminated the stream was a hydraulic oil, trade name Tellus 68. The spill amounted to one (1) drum of 50 to 55 gallons. This oil had leaked from fittings on injection mold equipment.

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June 7, 1985

Oil Spill into the storm Sewers

As for the reason for the spill, it was noted that oil around the injection mold equipment is soaked up with oil dry and is deposited into a dumpster that is taken to the land fill. Some of the oil is caught in trays under the equipment and this is placed in drums. Absocold has not recycled or reclaimed this oil because of the small amount generated. This oil had also been placed in the dumpster and sent to the land fill in the past. When the hi-lo operator went to put the oil into the dumpster, the dumpster had been moved. The operator then took the oil to a storm sewer manhole and dropped the oil into the sewer. Mike Rosenberger, an Emergency Coordinator, saw him empty the last of the oil into the sewer and immediately started emergency procedures.

The following is a list of people who were on the scene:

Thomas Atkinson - Wayne County Board of Health

E.D. Mulick - Vice President/General Manager, Absocold Corporation

Garry Teeguarden - Plant Manager, Absocold Corporation
Emergency Coordinator

David Riehle - Plant Manager, Design & Manufacturing

Jack Mitchell - Primary Coordinator - Motor Fab
Design & Manufacturing

Mike Rosenberger - Emergency Coordinator - Supervisor, Paint
Design & Manufacturing

Gene Vecera - Emergency Coordinator - Supervisor, Shipping & Receiving
Absocold Corporation

Bill Hartman - Emergency Coordinator - Supervisor
Design & Manufacturing

Paul Fuller - Chem Lab, Design & Manufacturing

Randy Kincaid - Maintenance Supervisor, Absocold Corporation

In addition, four (4) hourly people were used from Design & Manufacturing and Absocold Corporation.

A contingency plan has been developed for the D&M and Absocold plants. The initial draft was sent to the State Board of Health for their evaluation.

In this emergency we did utilize the coordinators listed in our contingency plan. We did recover approximately 35 to 40 gallons of oil as a result of minimal time delay. We feel that most of the oil lost was a result of reaction time.

If there are any questions, please contact me.

Paul V. Fuller

Paul V. Fuller

Chem Lab

Design & Manufacturing

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Oil Spill into the storm sewers

cc: Gerry Nichols - - DEM
E.D. Mulick - Absocold Corporation
Dave Riehle - DEM
Garry Teegarden - Absocold Corporation
Gene Vecera - Absocold Corporation
Bud Dorsten - Absocold Corporation
Jack Mitchell - DEM
Mike Rosenberger - DEM
Bill Hartman - DEM
Randy Kincaid - Absocold Corporation
File

Friday, April 10, 1987 - Called EPA Region 5 in Chicago, Enforcement Division, (312) 353-2000. Told to contact a J.P. Singh (312) 886-6224.

Friday, April 10, 1987 - Anonymous Call - Cars sales lot located at top of hill (Sheridan St.) has a drain in center of garage floor which runs out and dumps over bank. The caller has taken an eel to clean out drain & found clogged. Probably will find grease, salt and maybe battery acid. Drains to railroad & caller was not sure after that but thinks it goes into pond on south side of Waterfall Rd. (Horseshoe Lake).

Additional Information caller provided

1. At Sim Hodgins Parkway & Bridge Avenue. Glazer Scrap & Metal has a drain which runs from crusher to the river. Caller has cleaned out this drain. Says that there is grease, gasoline, & battery acid coming from cars being crushed.

2. Approximately 600 block of Sheridan St. raw sewage coming down to river.

3. Bridge Avenue & "J" Street (up at top of hill) sewer water running on top of ground and down side of road.

4/20/87 - Wrote memorandum to Sanitation Dept. about items above.

Friday, April 10, 1987 - Linda Ellison 962-8397 came to park office to report barrels buried by AVCO (see map)

Friday, April 10, 1987 - Received call from Jim Berry from State Board of Health that local (Wayne Co. Health Dept.) would take necessary samples on 4/13/87 to test for cyanide & heavy metals. It will take four to six weeks to get results. Tests will be taken of ground water, wells & spring. (317) 633-0214

Saturday, April 11, 1987 - Requested that Karen Wright, Office Manager, contact Doug Kingsley at IDNR Fisheries Dept. to test fish for toxicity.

Monday, April 13, 1987 - Karen talked with Doug Kingsley (317) 342-5527 and was told that State Board of Health does fish testing. He was not sure which division does testing possibly Ralph Pichard of Environmental Health or Division of Water Quality or Biological Studies Standards.

Monday, April 13, 1987 - Talked to J.P. Singh at EPA. He told me to talk to Super Fund Enforcement Section Chief in Waste Management Division, Norman Niedergang (312) 886-4696.

Monday, April 13, 1987 - Talked to Mr. Niedergang. Said he would send information on the Emergency Section of the law, but said he felt we've already handled the emergency situation. He thinks it will be a lengthy process to get on the priority list for Super Fund, 6 to 10 years to reach an ultimate clean up. Questioned him about what types of tests should be done & who pays for it. If emergency EPA pays, if not see if State will. Recommended I talk to Jackie Stekkler with Indiana D.E.M. about investigation - she is the state counter-part in SuperFund (317) 243-5010. Mr. Neidergang requested I send him all the information we had.

RINGWOOD LAKE PARK ACTION JEPS

Friday, February 13, 1987 - Meeting with consultants from Morrison & Associates and Ralph Willis, City Engineer. Discussed drainage into lake and past history of chemical spills into lake. Ralph had no historical records of chemical spills.

Friday, February 20, 1987 - Arranged with Jackie Makela, City Chemist, to do water quality tests and received names of firms who could do sediment tests. She had no historical records of chemical spills.

Friday, February 20, 1987 - Talked with Dr. Warrick of County Health Dept. and he said he saw no problem with having swimming at Springwood as long as tests were done.

Tuesday February 24, 1987 - Arranged with E.C.I. Environmental Services to do sediment tests.

Wednesday or Thursday, February 25 or 26, 1987 - Talked with Tom Atkinson of the County Health Dept. and he did not feel there would be a problem with swimming but he did recall an oil spill awhile back.

Friday, February 27, 1987 - Talked with head of the Soil & Water Conservation District and received soil maps of the area and he recalled no problems which would prevent swimming.

Tuesday, March 10, 1987 - Received results of basic water quality tests from City Chemist.

Wednesday, March 11, 1987 - Received results of sediment tests and was contacted at school in W. Virginia. Ordered NO FISHING signs to be posted immediately.

Tuesday, March 17, 1987 - Contacted park consultants to ask them to interpret sediment results.

Tuesday, March 24, 1987 - Contacted City Chemist for her review of sediment tests. She contacted E.C.I. to check on standards used to evaluate results.

April 13, 1987 - Angie Derheimer who used to work at IDNR
recommended I talk to either Bob Wright, Attorney with DEM or Nancy
Jolley, Head of DEM.

Tuesday, April 14, 1987 - Caller who was President of Conservation Club
said that Pete Steens gave Belden Corp. permission to run drain pipe into
lake. He thinks that may be the source of lead pollution.

Friday, April 22, 1987 - Mary Ann Hunter from IDEM, Site Investigation Division called
to say that preliminary investigation of companies in areas. More site samplings will be taken.
She recommended that Epidemiology section of State Board of Health will recommence whether
we can open park again. Sent her a copy of the action steps to date.
Mary Ann Hunter - IDEM, 105 S. Meridian, Indy 46206, Room 838

Friday, May 15, 1987 - Received test results from State showing
residence & ~~BA~~ spring at north end safe. Still do not
have results from pavilion so cannot open for
picnic reservations. Called Dave Bane of Pleasant
View Little League to have them move back to Springwood

6-11-87 a.m. Don Atkinson from County
Health Dept. called to say that water
tests of Springwood Pavilion & UAW Clubhouse
were clean. He dropped off the
reports in afternoon

WHILE YOU WERE AWAY

FOR <u>Nancy</u> DATE <u>8-18</u> TIME <u>10:28</u> AM.	
M <u>Charles Philhower</u>	
OF _____	TELEPHONED
PHONE <u>966-3865</u> after 4:00	RETURNED YOUR CALL
AREA CODE _____ NUMBER _____ EXTENSION _____	PLEASE CALL
MESSAGE <u>Norm Brockman was chemist</u>	WILL CALL AGAIN
<u>at AVCO could show you where it</u>	CAME TO SEE YOU
<u>pollutes the lake. Always my sister</u>	WANTS TO SEE YOU
SIGNED <u>using the drain.</u> <u>NR</u>	TOPS FORM 4002

to say that
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Monday, April 13, 1987 - Angie Derheimer who used to work at IDNR recommended I talk to either Bob Wright, Attorney with DEM or Nancy Maloley, Head of DEM.

Tuesday, April 14, 1987 - Caller who was President of Conservation Club said that Pete Steens gave Belden Corp. permission to run drain pipe into lake. He thinks that may be the source of lead pollution.

Wednesday, April 1, 1987 - Received a reply from City Chemist that further water tests should be conducted to determine if there is a pollution risk to the river. Also a reply from E.C.I. with further questions and concerns.

Thursday, April 2, 1987 - Contacted Indiana Department of Environmental Management, Mart Maupin, and sent test results.

Monday, April 6, 1987 - Received a call from Marty Maupin for D.E.M. stating the the common cyanide level is not 250 mg/kg but .25 mg/kg and there was reason for concern for public safety with the cyanide and other pollutants.

Tuesday, April 7, 1987 - Received call from park consultant and we discussed the problem and the question of possible pollution in wells that service park buildings. Recommendation was to close park, get expert help to fully understand the problem and develop a plan of action to resolve the problem.

Wednesday, April 8, 1987 - Recommendation to Park Board to close Springwood Lake Park until more information could be obtained about public health hazards.

Thursday, April 9, 1987 - Mr. Karl Kaiser brought four polaroid pictures to office showing material in water. Put information on map.

Friday, April 10, 1987 - Received call from Mr. Jim Berry of State Board of Health. He called for information & will be doing tests of wells.

Friday, April 10, 1987 - Jackie Mekala called to repeat rumor that when AVCO closed they buried barrels which could be causing ground water problems. AVCO closed out in 1971 or 1972.

Friday, April 10, 1987 - Councilman Jack Elstro called with same AVCO rumor & that the company did have cyanide in the plant. He will get me address of AVCO.

Friday, April 10, 1987 - Cecil Long stopped by office. Address: 304 N. 5th, no phone but is usually at Townsend Center. Says he has seen a green discharge of a hot temperature being discharged from a pipe, which is covered by vegetation, into the river near where people wash their cars.

Friday, April 10, 1987 - Dr. Thomas Christmas, PhD. Environmental Engineering, University of Florida, Gainesville, (904) 332-4042. Called to say test show very serious problem and that it was a Federal EPA responsibility to investigate & cover costs. Suggested I call EPA, Region 5 in Chicago (Enforcement Division). He is going to Finland next week but wants to participate as consultant for City - buffer between the EPA and the City

Friday, April 10, 1987 - Informed City Attorney that EPA was being contacted.

TABLE V-2

Total concentrations of trace elements typically found in
soils and plants*

Element	Conc. in Soils (mg/kg)		Conc. in Plants (mg/kg)	
	Common	Range	Normal	Toxic†
As	6	0.1-40	0.1-5	-
B	10	2-100	30-75	>75
Cd	0.06	0.01-7	0.2-0.8	-
Cr	100	5-3000	0.2-1.0	-
Co	8	1-40	0.05-0.5	-
Cu	20	2-100	4-15	>20
Pb	10	2-200	0.1-10	-
Mn	850	100-4000	15-100	-
Mo	2	0.2-5	1-100	-
Ni	40	10-1000	1	>50
Se	0.5	0.1-2.0	0.02-2.0	50-100
V	100	20-500	0.1-10	>10
Zn	50	10-300	15-200	>200
Hg	50			

* From Allaway (1968).

† Toxicities listed do not apply to certain accumulator plant species.

TABLE V-3

Estimates of Background Levels of Mercury in
Samples Not Known to be Contaminated.
Compiled from Various Sources

Sample	Concentration (ppb)
Air	0.002
River and ground water	0.05
Sea water	0.1
Rain water	0.15
Raw Sewage	2
Crustal rocks	50
Soils and sediments	50
Coal	200
Fish	100
Man	100

E. C. I. ENVIRONMENTAL SERVICES

P. O. Box 327
Cambridge City, IN 47327
Tel. 317-478-4801
Off. Brookside Lab